

## Res. Asst. Ümmügülsüm POLAT KORKUNÇ

### Personal Information

Web: <https://avesis.yildiz.edu.tr/gulsmplt>

### International Researcher IDs

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### Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey 2018 - Continues

Postgraduate, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya/Biyokimya, Turkey 2015 - 2018

Undergraduate, Balikesir University, Fen Edebiyat Fakültesi, Kimya, Turkey 2009 - 2013

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, FLORESANS ÖMÜR DAĞILIMI KULLANILARAK POLIAKRİLİK ASİT- TRİPSİN KONJUGATI VE SERBEST TRİPSİNİN PROTEOLİTİK AKTİVİTESİNDEKİ DEĞİŞİMLERİN İNCELENMESİ, Yıldız Teknik Üniversitesi, Kimya/Biyokimya, 2017

### Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2017 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Sensitive and accurate determination of oil-soluble and water-soluble organosulfur compounds in garlic matrix using reversed phase-high performance liquid chromatography,**  
Polat Korkunç Ü., Zaman B. T., Bakırdere S., Karakuş E.  
TURKISH JOURNAL OF CHEMISTRY, no.2, pp.281-288, 2024 (SCI-Expanded)
- II. **Analysis of hydrolytic differences of free and "polyacrylic acid (PAAc)-conjugated trypsin and chymotrypsin" by using fluorescence lifetime distributions**  
Polat Ü., Özyiğit İ. E., Karakuş E.  
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.50, pp.717-722, 2020 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **DETERMINATION OF OIL SOLUBLE AND WATER SOLUBLE ORGANOSULPHUR COMPOUNDS IN GARLIC**

## **MATRIX BY USING ACCURATE/SENSITIVE REVERSED PHASE HPLC**

Polat Korkunç Ü., Zaman B. T., Bakırdere S., Karakuş E.

4th International Environmental Chemistry Congress, Antalya, Turkey, 31 October - 02 November 2022, pp.59-60

### **II. Determination of total carbohydrate and total protein of Kastamonu Taşköprü garlic bulb**

Polat Korkunç Ü., Karakuş E.

International Biotechnology Congress, İstanbul, Turkey, 9 - 11 September 2021, pp.149-150

### **III. Çinko Oksit Nanorod ve Hyaluronik Asit Temelli Glukoz Biyosensörü Hazırlanması**

Tokgöz D., Polat Ü., KARAKUŞ E.

8. Ulusal Kimya Öğrenci Kongresi, İstanbul, Turkey, 16 May 2017, pp.19

### **IV. Tripsin Ve Kimotripsin'in Poliakrilik Asit Konjugatlarının PM-BSA Kompleksi Floresans Ömür Dağılımı Üzerine Etkileri**

Polat Ü., Özyiğit İ. E., KARAKUŞ E.

8. Ulusal Kimya Öğrenci Kongresi, İstanbul, Turkey, 16 May 2017, pp.11

### **V. Effects of PAA-Chymotrypsin Conjugate on Fluorescence Lifetime Distributions of PM-BSA Complex**

Amer S., Polat Ü., Özyiğit İ. E., KARAKUŞ E.

International Conference on Advances in Science and Arts Istanbul-2017, İstanbul, Turkey, 29 March 2017, pp.34

### **VI. Fluorescence Lifetime Distribution Changes of "N-(1-Pyrenyl) Maleimide (PM)-Bovine Serum Albumin (BSA); PM-BSA" Complex by the Proteolytic Effects of Free And Polyacrylic Acid (PAA)-Conjugated Trypsin**

Polat Ü., Özyiğit İ. E., KARAKUŞ E.

International Conference on Advances in Science and Arts Istanbul-2017, İstanbul, Turkey, 29 March 2017, pp.12

## **Supported Projects**

KARAKUŞ E., ÇAKIR KOÇ R., POLAT KORKUNÇ Ü., Çalık H., Project Supported by Higher Education Institutions, Ülkemiz Kaynaklı Doğal Organosülfür Bileşiklerinin Kanser İyileştirici Etkileri, 2021 - 2023

## **Metrics**

Publication: 11

Citation (Scopus): 8

H-Index (Scopus): 2